

**R&H OIL/TROPICANA ENERGY SITE
WORK PLAN REFINEMENT/MODIFICATION NOTICE**

REFERENCE DOCUMENTS: Remedial Investigation/Feasibility Study Work Plan, Sampling and Analysis Plan, Field Sampling Plan (all dated September 24, 2010, as revised by letter dated December 21, 2010)

DATE: March 26, 2012

DESCRIPTION OF REFINEMENT/MODIFICATION:

Two additional monitoring wells will be installed in the shallow groundwater-bearing zone downgradient/east of the Site to characterize the shallow ground water in this area. The monitoring wells will be located on Fitch Street (near existing well MW-9) and Milvid Avenue (near existing well MW-8). Based on the shallow geology observed during the installation of wells MW-8 and MW-9, the proposed wells (MW-21 and MW-22) will be installed to a depth of approximately 23 feet below ground surface with a screen interval of 10 feet to 23 feet below ground surface. Monitoring well installation, construction and sampling will be in accordance with procedures described in the approved Work Plan.

Soil gas sample points will also be installed in the vicinity of wells MW-8 and MW-9. The sample points will be installed and sampled in accordance with procedures described in the approved Work Plan. Soil samples may be collected during monitoring well or soil gas point installation if field conditions warrant.


RATIONALE FOR REFINEMENT/MODIFICATION:

Groundwater data collected during the June and October 2011 groundwater monitoring events indicate that Site COCs are not fully delineated in shallow groundwater to the Extent Evaluation Values (EEVs) at the downgradient Site boundary. Along the downgradient property boundary, the highest concentration of Site COCs in groundwater is in the area immediately adjacent and upgradient of Fitch Street (e.g., MW-17, MW-6 and MW-19). Shallow groundwater concentrations south of this area are below the EEVs at the property boundary (MW-20). Based on the shallow geology observed during installation of the off-site wells, the shallow groundwater-bearing unit does not appear to extend much further beyond well MW-9, with the silty sand layer terminating in a silty clay.

Soil gas samples are proposed to be collected in the vicinity of wells MW-8 and MW-9 to evaluate the potential for vapor intrusion impacts related to the off-site portion of the groundwater plume. Organic vapors were detected in shallow soil headspace samples during the installation of wells MW-8 and MW-9.

APPROVALS:

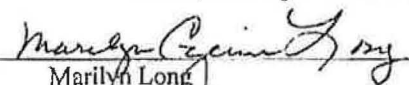
Respondents' Project Coordinator:


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Pastor, Behling & Wheeler, LLC

Date:

3/27/2012

TCEQ Project Manager:


Marilyn Long

Date:

3/27/2012

EPA Project Manager:


Chris Villarreal

Date:

3/27/2012

ATTACHMENT A
PROPOSED MONITORING WELL AND SOIL GAS SAMPLE LOCATION MAP



EXPLANATION

- Site Boundary Fence
- - - Property Boundary
- ⊗ Groundwater Monitoring Well
- ⊠ NAPL Monitoring Well
- ⊗ Proposed Monitoring Well Location
- △ Proposed Soil Gas Sample Point



Approx. Scale in Feet



Note: All locations are approximate.

Source:
http://imageserver.sanantonio.gov/aerial/photograph, 8/19/03

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Attachment A

PROPOSED MONITORING WELL AND SOIL GAS SAMPLE LOCATION MAP

PROJECT: 1651

BY: ZGK

REVISIONS

DATE: MAR., 2012

CHECKED: EFP

PASTOR, BEHLING & WHEELER, LLC
CONSULTING ENGINEERS AND SCIENTISTS